

# Panasonic®



## KNX AREA/LINE COUPLER TP

WRKT21015NC



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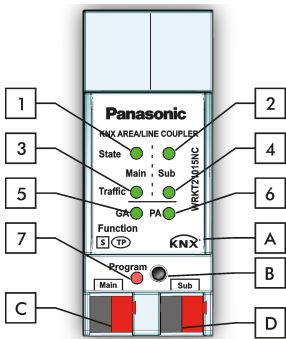
### Product Description

The KNX Area/Line Coupler TP connects two TP lines as main line and subline. KNX Area/Line Coupler TP can be used as KNX line coupler and KNX area coupler or KNX repeater (without filtering). The lines have a galvanic separation between each other. Operational and filtering states, malfunction and faulty communication are indicated by LEDs. KNX Area/Line Coupler TP is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group oriented communication. Extended frames and long messages with up to 239 bytes APDU length are supported. For commissioning and troubleshooting a configurable Manual Function to temporarily deactivate filtering is available. It can be activated by a single button press and its switch-off after a pre-set time period is automatic. Moreover, functions are:

- Suppress device configuration from the subline
- Enable/disable filtering of Group telegrams or Physical telegrams
- Number of repetitions is reducible
- Confirmations can be added to sent out telegrams

Requirements of Directives EMC, RoHS and LVD are met. Standards for residential, commercial, and industrial environments are fulfilled. The full text of the EU declaration of conformity is available at the following internet address: Istr.panasonic.com

### Connectors, Buttons and LEDs Description



- A. Function button
- B. Programming button
- C. KNX TP main line connector
- D. KNX TP subline connector
- 1. Bus state KNX TP (Main line)
  - green: Main line OK
  - orange: Manual Function active
- 2. Bus state KNX TP (Subline)
  - green: Subline OK
- 3. Telegram traffic KNX TP (Main line)
  - green (blinking): Telegram traffic extent
  - red (blinking): Transmission error
- 4. Telegram traffic KNX TP (Subline)
  - green (blinking): Telegram traffic extent
  - red (blinking): Transmission error
- 5. Group Address routing
  - green: Filter active
  - orange: Route all
  - red: Block all
  - <off>: Main line / subline different
- 6. Physical Address routing
  - green: Filter active
  - orange: Route all
  - red: Block all
  - <off>: Main line / subline different
- 7. Programming LED
  - red: Programming Mode active

### Technical Specifications

| Power input                     |  |
|---------------------------------|--|
| Power supply                    | 21...30 V DC SELV  |
| Current consumption             | < 10 mA (from main line)   |
| Housing                         |  |
| Dimensions (HxWxD)              | 90 x 36 x 71 mm  |
| Mounting (IEC60715)             | 35 mm top-hat rail (TH35)  |
| Width in space units            | 2 modules at 18 mm   |
| KNX bus connections             | KNX connector (red/black) for KNX TP main line & subline                           |
| Weight                          | 62 g   |
| Environmental conditions        |  |
| Operating temperature           | -5...45 °C   |
| Storage temperature             | -20...60 °C  |
| Ambient humidity                | 5...93 % (non-condensing)  |
| Electrical safety               |  |
| Pollution degree (IEC60664)     | 2  |
| Protection type (IEC60529)      | IP20   |
| Protection class (IEC61140)     | III  |
| Overvoltage category (IEC60664) | III  |
| Approbation (ISO/IEC14543-3)    | KNX-certified  |
| CE Marking                      |  |
| EU Directives                   | LVD (2014/35/EU)<br>EMC (2014/30/EU)<br>RoHS (2011/65/EU)                          |
| Standards                       | EN50491-5-1<br>EN50491-5-2<br>EN50491-5-3<br>EN50581<br>EN61000-6-2<br>EN61000-6-3 |

### Mounting, Commissioning and Safety Notes

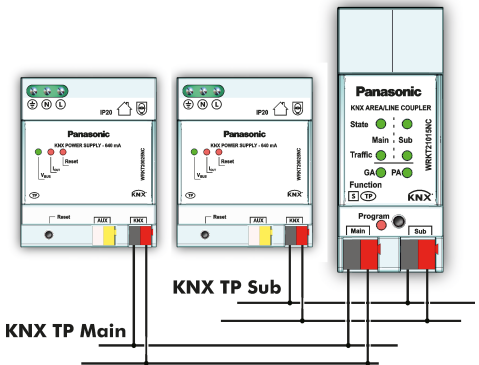
- After connection to the KNX bus system, the device works with its default settings as intended
- Warning: Do not connect to 230 V. The device is supplied by the KNX bus and does not require any additional external power supply
- The device may only be installed and put into operation by a qualified electrician or authorized personnel
- For planning and construction of electric installations the appropriate specifications, guidelines and regulations in force of the respective country have to be complied
- For mounting use an appropriate equipment according to IEC60715

- Installation on a 35 mm DIN rail (TH35)
- Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector
- Do not damage electrical insulations during connecting
- Installation only in dry locations
- Accessibility of the device for operation and visual inspection must be provided
- For changing the configuration use the ETS

**⚠ Installation should only be carried out by a technical personnel having certificate of competency.**

### Installation and Maintenance

- The housing must not be opened
- Protect the device from moisture, dirt and damage
- The device needs no maintenance
- If necessary, the device can be cleaned with a dry cloth
- In the case of damage (at storage, transport) no repairs may be carried out by unauthorized personnel
- Configuration details and ETS database:



### WARNING

- Ensure that the power is cut off before the assembly of the products.
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Use dry or slightly damp cloth to clean the buttons, cover and frame of the product. Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- In case the surface to which the product is connected is dyed, store the product by removing its cover and the frames.
- Keep the product away from the damp or wet environment during the transportation and shipping.
- It is intended for indoor use only.

### Service and Guarantee

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under warranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502;
  - a- Withdrawal from the contract
  - b- Demanding discount from sales fee
  - c- Demanding free repair,
  - d- Demanding the replacement of the sold one with a fungible one free from defects.
- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product
  - fails within the warranty period again and
  - the maximum period required for the repair is exceeded and
  - Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.
- The repair period of the product can not exceed 20 business days. This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized service station out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer until the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade\*.